

## **Spin-lattice relaxation and polarization of nuclei in impurity RE<sup>3+</sup>-YLiF<sub>4</sub> single crystals**

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### **Abstract**

The temperature dependences of the spin-lattice relaxation of rare-earth ions (RE<sup>3+</sup>) are investigated in YLiF<sub>4</sub> single crystals. The EPR spectra of Er<sup>3+</sup> and Dy<sup>3+</sup> are detected and studied at the excited levels of the ground terms. The prospects for RE<sup>3+</sup>-YLiF<sub>4</sub> matrices for the production of polarized targets are shown. © 1979 Plenum Publishing Corporation.

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